/JML/

```
RESULT 8
AAP80269
     AAP80269 standard; protein; 212 AA.
XX
AC
     AAP80269;
XX
DT
     15-JUN-2007
                 (revised)
     25-MAR-2003
                 (revised)
DT
DТ
     03-OCT-2002 (revised)
DT
     08-OCT-1990 (first entry)
XX
DE
     Recombinant interleukin 6.
XX
     IL-6; interleukin; cancer; BOND_PC; interleukin 6 (interferon, beta 2);
ΚW
     interleukin 6 (interferon, beta 2) [Homo sapiens]; IL6; HGF; HSF; BSF2;
KW
     IL-6; IFNB2; interleukin 6 (interferon, beta 2), isoform CRA_a;
KW
     interleukin 6 (interferon, beta 2), isoform CRA_a [Homo sapiens];
ΚW
     unknown; unknown [Homo sapiens]; interleukin-6;
KW
     interleukin-6 [Homo sapiens]; interferon 6 precursor; interleukin 6;
     hybridoma growth factor peptide; interleukin 6 [Homo sapiens];
ΚW
ΚW
     unnamed protein product; unnamed protein product [Homo sapiens];
     put. mature polypeptide (AA 1-184); IL6 [Homo sapiens];
KW
KW
     B cell stimulatory factor-2 (BSF-2);
KW
     B cell stimulatory factor-2 (BSF-2) [Homo sapiens];
     interleukin 6 [synthetic construct];
     interleukin 6 (interferon, beta 2) [synthetic construct]; GO1781; GO5125;
ΚW
     GO5138; GO5515; GO5576; GO5615; GO6953; GO6959; GO7166; GO7267; GO8284;
KW
KW
     GO8285; GO43066; GO45079; GO45630; GO45727.
XX
OS
     Homo sapiens.
OS
     Synthetic.
XX
FΗ
                     Location/Qualifiers
     Key
FT
                     1. .27
     Peptide
FT
                     /label= signal peptide
FT
     Modified-site
                     73. .75
FT
                     /label= Glycosylation site
FT
                     /note= "N-linked"
FT
     Modified-site
                     172. .174
FΤ
                     /label= Glycosylation site
                     /note= "N-linked"
FT
XX
PΝ
     W08800206-A.
XX
PD
     14-JAN-1988.
XX
PF
     07-JUL-1987;
                    87WO-US001611.
XX
PR
     08-JUL-1986;
                    86US-00883207.
PR
     15-JUL-1986;
                    86US-00885905.
PR
     08-MAY-1987;
                    87US-00047957.
XX
     (GEMY ) GENETICS INST INC.
PA
```

```
PΙ
    Clark SC, Wong GG, Schendel P, Mccoy J;
XX
DR
    WPI; 1988-021566/03.
    N-PSDB; AAN80299.
DR
    PC:NCBI; gi10834984.
DR
DR
    PC:SWISSPROT; P05231.
DR
    PC:BIND; 116560,179493,116559,179102,262686,227104,179037.
XX
PΤ
    Prodn. of non-glycosylated IL-6 - for use in treatment of deficiency
PΤ
    disorders in haematopoietic cells and in cancer therapy.
XX
PS
    Disclosure; Page ?; -pp; English.
XX
CC
    The sequence is encoded by DNA carried by pCSF309 in E.coli MC1061 (ATCC
CC
    67153) as an EcoRI insert. This can be excised and used to construct an
    expression plasmid for prodn. of IL-6. Bacterially produced IL-6 is non-
CC
CC
    glycosylated. It can be used against diseases caused by decreased levels
CC
    of either myeloid or lymphoid cells of the haematopoietic system. It may
CC
    also be used in conjunction with other interleukin therapies or as a
CC
    hybridoma growth factor in culture medium. See also AAP80270. (Updated on
CC
    03-OCT-2002 to add missing OS field.) (Updated on 25-MAR-2003 to correct
CC
    PR field.) (Updated on 25-MAR-2003 to correct PA field.)
CC
CC
    Revised record issued on 15-JUN-2007: Enhanced with precomputed
CC
    information from BOND.
XX
SQ
    Sequence 212 AA;
 Query Match
                      94.7%; Score 790.5; DB 1; Length 212;
 Best Local Similarity 76.4%; Pred. No. 4.1e-73;
 Matches 162; Conservative 0; Mismatches 1; Indels 49; Gaps 1;
          1 MNSFSTSAFGPVAFSLGLLLVLPAAFPAPVPPGEDSKDVAAPHRQPLTSSERIDKQIRYI 60
Qу
            1 MNSFSTSAFGPVAFSLGLLLVLPAAFPAPVPPGEDSKDVAAPHRQPLTSSERIDKQIRYI 60
Db
         61 LDGISALRKETCNKSNMCESSKEALAENNPNLPKMAEKDGCFQSGFNE----- 108
Qv
            61 LDGISALRKETCNKSNMCESSKEALAENNLNLPKMAEKDGCFOSGFNEETCLVKIITGLL 120
Db
        109 -----AKNLDAITTPDPTTNASLLTKLQ 131
Οv
                                             121 EFEVYLEYLQNRFESSEEQARAVQMSTKVLIQFLQKKAKNLDAITTPDPTTNASLLTKLQ 180
Dh
        132 AQNQWLQDMTTHLILRSFKEFLQSSLRALRQM 163
Qу
            Db
        181 AQNQWLQDMTTHLILRSFKEFLQSSLRALRQM 212
Alignment Scores:
Pred. No.:
                     1.59e-73
                                 Length:
                                                212
                     790.50
                                 Matches:
Score:
                                               162
Percent Similarity: 76.4%
                                 Conservative: 0
Best Local Similarity: 76.4%
                                 Mismatches:
                                              1
Query Match:
                     45.1%
                                 Indels:
                                               49
DB:
                     1
                                  Gaps:
                                                1
```

US-10-525-743A-2 (1-962) x AAP80269 (1-212)

Qу	34	ATGAACTCCTTCTCCACAAGCGCCTTCGGTCCAGTTGCCTTCTCCCTGGGGCTGCTCCTG	93
Db	1		20
Qy	94	GTGTTGCCTGCCTCCCTGCCCCAGTACCCCCAGGAGAAGATTCCAAAGATGTAGCC	153
Db	21		40
Qy	154	GCCCCACACAGACAGCCACTCACCTCTTCAGAACGAATTGACAAACAA	213
Db	41		60
Qy	214	CTCGACGGCATCTCAGCCCTGAGAAAGGAGACATGTAACAAGAGTAACATGTGTGAAAGC	273
Db	61	LeuAspGlyIleSerAlaLeuArgLysGluThrCysAsnLysSerAsnMetCysGluSer	80
Qу	274	AGCAAAGAGGCACTGGCAGAAAACAACCCGAACCTTCCAAAGATGGCTGAAAAAAGATGGA	333
Db	81	SerLysGluAlaLeuAlaGluAsnAsnLeuAsnLeuProLysMetAlaGluLysAspGly	100
Qу	334	TGCTTCCAATCTGGATTCAATGAG	357
Db	101	CysPheGlnSerGlyPheAsnGluGluThrCysLeuValLysIleIleThrGlyLeuLeu	120
Qу	357		357
Db	121	${\tt GluPheGluValTyrLeuGluTyrLeuGlnAsnArgPheGluSerSerGluGluGlnAla}$	140
Qу	358	GCAAAGAAT	366
Db	141	ArgAlaValGlnMetSerThrLysValLeuIleGlnPheLeuGlnLysLysAlaLysAsn	160
Qу	367	CTAGATGCAATAACCACCCTGACCCAACCACAAATGCCAGCCTGCTGACGAAGCTGCAG	426
Db	161	LeuAspAlaIleThrThrProAspProThrThrAsnAlaSerLeuLeuThrLysLeuGln	180
Qу	427	GCACAGAACCAGTGGCTGCAGGACATGACAACTCATCTCATTCTGCGCAGCTTTAAGGAG	486
Db	181	AlaGlnAsnGlnTrpLeuGlnAspMetThrThrHisLeuIleLeuArgSerPheLysGlu	200
Qу	487	TTCCTGCAGTCCAGCCTGAGGGCTCTTCGGCAAATG 522	
Db	201	PheLeuGlnSerSerLeuArgAlaLeuArgGlnMet 212	